



# Phyton™ 8051 80196 PIC™ AVR® XEMICS

## Emulators, Simulators, Compilers, Programmers

ADVERTISEMENT - Please visit our sponsors to support this site

Can't Reply -- Old Thread is Locked | Back To Subject List

Search  
8052.com...

Search!

Hello, Aubrey !

My Account  
My Home Page

Logoff

8052 Store

Main

Message Board

Tutorials

8052 FAQs

News

Code Library

Chips

Links

Books

Reviews

Consultants

User Pages

8052 Video

8052 TCP/IP

8052 CD-ROM

Disassembler

8052.com SBC

Site Members

Contact Us

About VIS

Legal Info

**Subject:** RE: low pass filter algorithm for 8051

**Full Name:** Ed Oldynski

**Date:** 29/Jul/03 3:49 pm

**Read:** 52 times

**Score:** Hasn't been scored

I have used a simple version of FIR filter and it works very well, with no delay

$$X_o = ((G * X_o) + X_s)/(1+G)$$

where  $X_o$  is the last output from the equation,

$G$  is the smoothing factor(0 no smoothing)

$X_s$  is the ADC sample

you will have to initialize  $X_o$  to the very first sample.

you get very good smoothing with small (2,3) numbers for  $G$ .

ed.

Can't Reply -- Old Thread is Locked | Back To Subject List

### List of 7 messages in thread

Topic	Author	Date
<a href="#">low pass filter algorithm for 8051</a> <small>New</small>	Vagelis Katsos	07/Mar/00 2:
<a href="#">RE: low pass filter algorithm for 8051</a> <small>New</small>	Steve Taylor	07/Mar/00 10
<a href="#">RE: low pass filter algorithm for 8051</a>	Sascha Pypke	19/Mar/00 2:
<b>RE: low pass filter algorithm for 8051</b>	Ed Oldynski	29/Jul/03 3:
<a href="#">RE: low pass filter algorithm for 8051</a> <small>New</small>	Raghunathan R	29/Jul/03 8:(
<a href="#">RE: low pass filter algorithm for 8051</a> <small>New</small>	Steve M. Taylor	30/Jul/03 6::
<a href="#">RE: low pass filter algorithm for 8051</a> <small>New</small>	Raghunathan R	30/Jul/03 11:

Can't Reply -- Old Thread is Locked | Back To Subject List

This thread is locked and no further posts are accepted because the thread has been inactive for  
than 60 days.

(C) Copyright 1997 - 2005 by Vault Information Services LLC. All Rights Reserved.  
Information provided "as-is" without warranty. Please see details.  
[Contact us](#) for usage and copy permission.